BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of Work:-Detailed estimate for Construction of size stone masonry drain & covering slab in GKVK layout from GKVK park to Hanumappa layout in ward no:04.

Estimate Cost Rs. 3000000.00

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1,Earth work excavation by manual means in ordinary soil invlving an average horizontal throw up to 2 meters and an average lift uo to 1.5m,excavated surface levelled and sides neatly dresssed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications (Item no19.1,Page no 138, PWD SR 2014-15)	Cum							
	Construction of masonry drain from GKVK park to Hanumappa layout		1	120.00	3.30	1.90	752.40		
			1	22.00	12.40	0.35	95.48		
			1	10.00	3.00	0.35	10.50		
							858.38		
	Desilting of drains:-Existing mud drain		1	120.00	0.90	0.90	97.20		
	Culvert Portion		1	10.00	1.50	0.35	5.25		
							102.45		
							755.93	**75.60**	**57148.00**
	Basic Rate	70.00							
	Area Weightage @ 8%	5.60							
	Total	**75.60**							
2	KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH Chapter 3	Sqm							
	Concrete surface area		1	22.00	12.40		272.80		
			1	10.00	3.00		30.00		
							302.80		
	Culvert Portion		1	10.00	1.50		15.00		
							287.80	**4.48**	**1290.00**
	Basic Rate	4.15							
	Area Weightage @ 8%	0.33							

	Total	**4.48**							
3	KSRRB 4-1.3:Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @0.57cum machine mixed,machine mixed,concrete laid in layers not exeeding 15cms.thick, well compacted in foundation,including cost of all materials,labour,HOM of machinery,curing complete as per specifications.Specification no KBS4.1,4.2(Item no4.3,Page no12, PWD SR 2014-15)	Cum							
	Construction of masonry drain from GKVK park to Hanumappa layout		1	113.00	3.20	0.20	72.32		
	Concrete surface area		1	22.00	12.40	0.15	40.92		
			1	10.00	3.00	0.15	4.50		
							117.74		
	Culvert Portion		1	10.00	1.50	0.15	2.25		
							115.49	**4847.04**	**559785.00**
	Basic Rate	4488.00							
	Area Weightage @ 8%	359.04							
	Total	**4847.04**							
4	KSRRB 4.1:6Providing and laying in position plain **cement concrete mix 1:2:4** with cement @240kgs, with 20mm and down size graded granite metal coarse aggregates @0.69 cum and fine aggregates @0.459cum, machine mixed, concrete laid in layers not exceeding 15cms thick well compacted,in foundation,plinth and cills,including cost of all materials, labour, HOM of machineries, curing complete as per specifications. Specification no 4.1,4.2 **(Page.12 & Item No. 4.6)**	Cum							
	Coping concrete		2	113.00	0.60	0.12	16.27		
	Vent portion		1	113.00	1.40	0.15	23.73		
							40.00		
	Opens		2	2.00	0.60	0.12	0.29		

	Basic Rate	4933.00					39.71	5327.64	211582.00
	Area Weightage @ 8%	394.64							
	Total	5327.64							
5	KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stone chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specification. KBS 5.1.13 (P.23/5.9) PWD SR 2014-15								
	Masanry walls		2	113.00	0.90	0.60	122.04		
			2	113.00	0.75	0.55	93.23		
			2	113.00	0.60	0.75	101.70		
							316.97		
	Opens		2	2.00	0.90	0.60	2.16		
			2	2.00	0.75	0.55	1.65		
			2	2.00	0.60	0.75	1.80		
							5.61		
							311.36	4542.48	1414324.00
	Basic Rate	4206.00							
	Area Weightage @ 8%	336.48							
	Total	4542.48							
6	KSRB 4.2.2 : Providing and laying in position Reinforced cement concrete of design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @0.460cum with super plasterise @ 3lts conforming etc as per specification&direction of the engineer incharge of work(pwd sr2014-15,p.no13,sno4.11)	Cum							
	Concrete surface area		1	22.00	12.40	0.10	27.28		
			1	10.00	3.00	0.10	3.00		
							30.28	6065.28	183657.00
	Basic rate	5616.00							
	Add 8% AW	449.28							
	Total	6065.28							

7	KSRB 4.9.2: Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per specifications.Specification noKBS 4.6.3,TMT bars Fe550(pwd sr 2014-15,p.no17,s.no 4.46)	Qtl							
	For road 44 kg / cum						13.32		
							13.32	7905.60	105328.00
	Basic rate	7320.00							
	Add 8% AW	585.60							
	Total	7905.60							
8	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, attached pilasters,bittresses,buttresses plinth and string course including cost of all materials,labour complete asper specification. Specification no.KBS 4.6.2 (pwd sr2014-15,p.no15/4.31)	Sqm							
	Concrete side edges		1	12.40		0.25	3.10		
			2	3.00		0.25	1.50		
	Coping concrete		4	113.00		0.12	54.24		
							58.84		
	Deductions for open portions		4	2.00		0.12	0.96		
			1	10.00		0.25	2.50		
							3.46		
							55.38	292.68	16209.00
	Basic rate	271.00							
	Add 8% AW	21.68							
	Total	292.68							
9	KSRB 15.1.3: Providing ruled pointing to coursed stone masonry with cement mortar 1:3, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. Page No. 109/ Item No. 15.3 / PWD SR 2014-15								

	Drain inner sdie		2	113.00		1.50	339.00		
	Deductions for vent portions		4	2.00		1.50	12.00		
							351.00	92.88	**32601.00**
	Basic rate	86.00							
	Add 8% AW	6.88							
	Total	92.88							
10	Vaccum de-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift.(P.No 171, I.No 22.7)	Sqm							
	Concrete surface area		1	22.00	12.40		**272.80**		
			1	10.00	3.00		**30.00**		
							302.80	**97.20**	**29432.00**
	Basic rate	90.00							
	Add 8% AW	7.20							
	Total	**97.20**							
11	Providing groove cutting for width of 5 mm to 10mm and depth 80mm-100 mm including cost of cutting machine, generator & HOM of machinery, including cost of blade,coolant etc., including cleaning of groove & providing sand and hot bitumen fillars, and filler metal etc., including cost of conveyance of all materials, labour, lead and lift charges and all other incidental charges as per drawing and as per specifications for concrete payment, (P.No 172, I.No 22.8)	Rmt							
			6	12.40			74.40		
			2	21.80			43.60		
							118.00	**124.20**	**14656.00**
	Basic rate	115.00							
	Add 8% AW	9.20							
	Total	**124.20**							

12	KSRRB M100-1 Loading and un loading of stone boulder/Stone aggregates/ sand/kanker/ Moorum. KSRRB M100-1:Placing tipper at loading point,loading with front end loader,dumping,turning for return trip,excluding time for haulage and return trip complete as per specifications(Item no17.1,Page no 130, PWD SR 2014-15)	Cum							51432.00
			Vide Item No. 1				811.93	68.04	55243.00
	Basic Rate	63.00					755.93		
	Area Weightage @ 8%	5.04							2677445.00
	Total	68.04					TOTAL		2671395.00
									294519.00
	KRIDL Charges 11%								293853.00
									26774.00
	Quality Control charges 1%								26714.00
									1262.00
13	Miscellaneous charges	L/S							8038.00
								Total RS	3000000.00
	(Rupees thirty lakhs only)								

Certificate:-

1 The work spot has been inspected and the work is found neccessary.
2 This estimate is prepared as per C.S.R. of 2014-15
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer
Ward no: 04

Assistant Executive Engineer
Yelahanka New town Sub Division
Bangalore-64

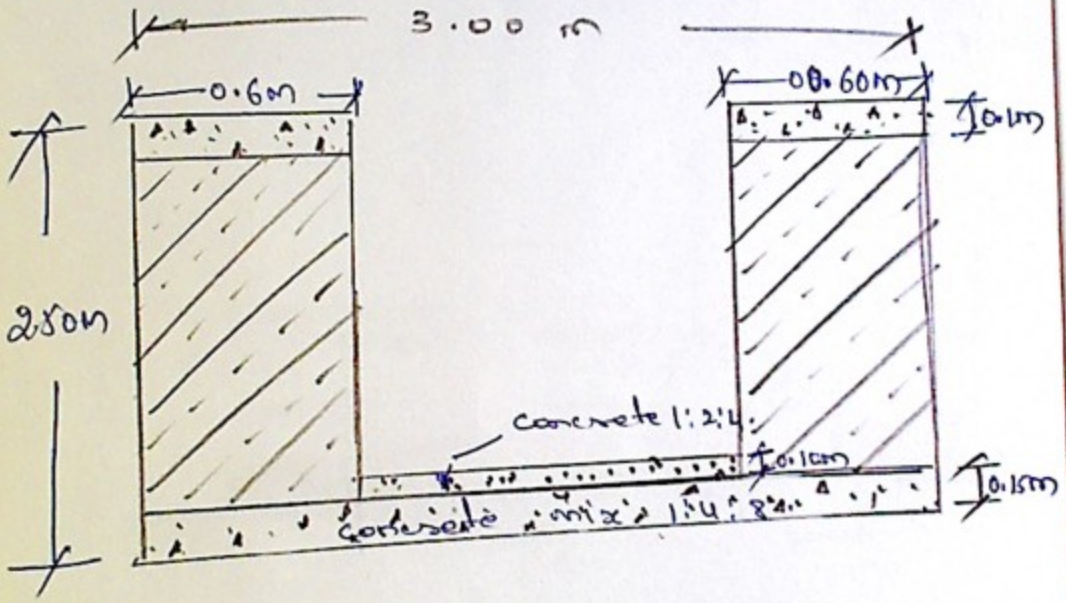
Executive Engineer
Yelahanka Division
Bangalore-64

Sanction for Rs.....
Administrative Approval
Accorded for Rs 30.00 lakhRs
is accorded under head.....
P-2415
registered as CE No. 128 Dt: 10.02.15 Subject
to Conditions contained in enclosed memo
No...../.....Dr.....
AE/JE TA SE (BTP) CE (BTP)
(YNK)

Sanction for Rs.....
Technical Sanction
Accorded for Rs 30.00 lakhRs.
is accorded under head.....
P-2415
registered as CE No. 94 Dt: 10.02.15 Subject
to Conditions contained in enclosed memo
No...../.....Dr.....
AE/JE TA SE (BTP) CE (BTP)
(YNK)

6

construction of 3 size stone masonry drain & covering slab in 9KVK layout from 4KVK park to Hanumappa layout



c/s of drain Section.